QUICK REFERENCE GUIDE FOR RCA FERRITE MEMORY CORES

Revised 5/20/65

Whatever Your Ferrite Memory Requirements, Select RCA Application-Oriented Cores – Conventional Or Wide-Temperature-Range Types

YOUR SYSTEM CYCLE-TIME	RECOMMENDED RCA CORE TYPE Conventional	RECOMMENDED COINCIDENT-CURRENT DRIVE CONDITIONS — PULSE CHARACTERISTICS @ 25°C				TYPICAL OUTPUT CHARACTERISTICS @ 25°C				CORE SIZE OD/ID
(Coincident-Current)	Wide-Temp Range	I_m in Ma	I_{pw} in Ma	t_r in μsec	t_d in μsec	dV_1 in mv	dV_z in mv	t_p in μsec	t_s in μsec	(in mils)
< 1 μsec	0181M5	875	437.5	0.05	0.2	35	5	0.10	0.18	20/12
1 to 2 μsec	0183M5	550	275	0.1	0.5	55	7	0.21	0.41	30/18
	0172M5	700	350	0.1	0.4	60	5	0.18	0.36	30/18
	0175M5	700	350	0.05	0.3	40	5	0.13	0.25	23/15
	270M1	800	400	0.1	0.5	65	6	0.21	0.41	30/18
	0178M5	820	410	0.05	0.25	35	5	0.10	0.18	20/12
	0187M5	820	410	0.05	0.25	35	5	0.11	0.22	20/12
2 to 4 μsec	0173M5	450	225	0.2	0.8	50*	4	0.36	0.60	30/18
	0167M5	625	312.5	0.2	0.8	50	4	0.36	0.58	30/18
4 to 6 μsec	232M1	480	240	0.2	1.5	80*	10	0.45	0.95	50/30
	264M1	630	315	0.2	1.5	80*	12	0.45	0.90	50/30
6 to 8 μsec	226M1	400	200	0.5	1.5	80*	7	0.70	1.25	50/30
	269M1	480	240	0.5	1.75	55	7	0.80	1.50	50/30
over 8 μsec	225M1	250	125	0.5	3.0	35*	3	1.15	2.40	50/30
	222M2	400	200	0.5	3.0	75*	10	1.15	2.30	80/50
	269M1	480	240	0.5	1.75	55	7	0.80	1.50	50/30

* μV_1

RCA WIDE-TEMPERATURE-RANGE CORES

When you specify RCA Wide-Temperature-Range Cores, you can operate your memory system over any 100°C range between the limits of −55°C and +125°C without temperature compensation, air conditioning, or other alternates.

CORES FOR SPECIAL APPLICATIONS

If you need a special core to meet some unusual requirement, RCA can draw on its broad experience and custom-formulate a special core for your application.

FOR MORE INFORMATION

Write, wire, or telephone your local RCA office, or RCA Electronic Components and Devices, Memory Products Operation, 64 "A" Street, Needham Heights 94, Mass. Telephone: 444-7200.

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Printed in U.S.A. Form No. 3L1012R2

Replaces Issue of 10/15/64